5842/417A

Medium-Mu Triode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings *(Absolute-Maximum Values)*:

Voltage (AC or DC)	6.3 ± 0.6	volts
Current at heater volts = 6.3	0.300	amp
Peak heater-cathode voltage:		
Heater negative with respect to cathode	55 max.	volts
Heater positive with respect to cathode	55 max.	volts

Direct Interelectrode Capacitances (Approx.):[a]

Plate to cathode and heater	0.55	μμf
Cathode to grid and heater	9	μμf
Plate to grid and heater	1.8	μμf

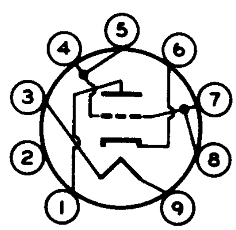
Characteristics, Class A_1 Amplifier:

Plate Supply Voltage	130	150	volts
Grid Voltage[b]	9	–	volts
Cathode Resistor	360	60	ohms
Amplification Factor	43	43	
Plate Resistance (Approx.)	1600	1700	ohms
Transconductance	27000	25000	μmhos
Plate Current	27	25	ma

Mechanical:

Operating Position	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length	1-3/4"
Maximum Seated Length	1-1/2"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/8" ± 3/32"
Diameter	0.750" to 0.875"
Dimensional Outline	See *General Section*
Bulb	T6-1/2
Base	Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW	9V

Pin 1 - Plate
Pin 2 - No Internal Connection
Pin 3 - Heater
Pin 4 - Grid



Pin 5 - Grid
Pin 6 - Cathode
Pin 7 - Grid
Pin 8 - Grid
Pin 9 - Heater

AMPLIFIER — Class A_1

Maximum Ratings, *Absolute-Maximum Values:*

PLATE VOLTAGE	200 max.	volts
CATHODE CURRENT	38 max.	ma

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PLATE DISSIPATION.	4.5 max.	watts
BULB TEMPERATURE (At hottest point on bulb surface).	160 max.	°C

[a] Without external shield.
[b] Measured with respect to the negative end of the cathode resistor.